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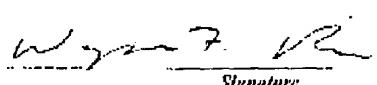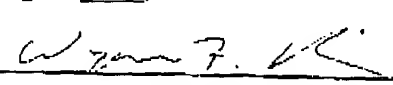
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Date:        August 18, 2004

From:        Wayne F. Reinke (e-mail: WFR@hrfmlaw.com)

No. of Pages:    13    (Including this Page)

Fax No.:     703-872-9306

To:          Examiner Benjamin R. Bruckart
             Group Art Unit 2155
             U.S. Patent and Trademark Office
             Alexandria, VA 22313-1450

Re:          U.S. Patent Application Serial No.: 09/712,576
             Applicant(s): Ryo Yoshida
             Attorney Docket No.: JA999144

Message:     Please find attached hereto the following documents:

             1.  Amendment Transmittal Letter (1 page) (in duplicate); and
             2.  Amendment and Response to Office Action (10 pages).

WFR:rqs
Attachments
0560357-FAX01

| AMENDMENT TRANSMITTAL LETTER (Large Entity) | Docket No. |
|---|---|
| Applicant(s):  Ryo Yoshida | JA999144 |

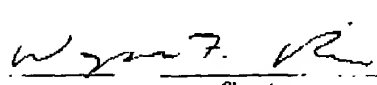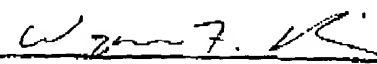| Application No. | Filing Date | Examiner | Customer No. | Group Art Unit | Confirmation No. |
|---|---|---|---|---|---|
| 09/712,576 | 11/14/2000 | Bruckart, B. | 23405 | 2155 | 9735 |

Invention:  REMOTE CONTROL SYSTEM, SERVER-CLIENT SYSTEM, SERVER FOR
CONTROLLING TERMINAL DEVICE, TERMINAL DEVICE OPERATING METHOD, DEVICE
INFORMATION SHARING METHOD, STORAGE MEDIA, AND PROGRAM TRANSMISSION APPARATUS

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<u>COMMISSIONER FOR PATENTS:</u>

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED

| | CLAIMS REMAINING AFTER AMENDMENT | | HIGHEST # PREV. PAID FOR | | NUMBER EXTRA CLAIMS PRESENT | RATE | ADDITIONAL FEE |
|---|---|---|---|---|---|---|---|
| TOTAL CLAIMS | 19 | - | 20 | - | 0 | x $18.00 | $0.00 |
| INDEP. CLAIMS | 7 | - | 7 | = | 0 | x $86.00 | $0.00 |
| Multiple Dependent Claims (check if applicable) | | | ☐ | | | | $0.00 |
| | | | TOTAL ADDITIONAL FEE FOR THIS AMENDMENT | | | | $0.00 |

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*Signature*

Dated:  August 18, 2004

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cc:

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August 18, 2004.

**Wayne F. Reinke**

| AMENDMENT TRANSMITTAL LETTER (Large Entity) | Docket No. |
|---|---|
| Applicant(s):   Ryo Yoshida | JA999144 |

| Application No. | Filing Date | Examiner | Customer No. | Group Art Unit | Confirmation No. |
|---|---|---|---|---|---|
| 09/712,576 | 11/14/2000 | Bruckart, B. | 23405 | 2155 | 9735 |

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INFORMATION SHARING METHOD, STORAGE MEDIA, AND PROGRAM TRANSMISSION APPARATUS

COMMISSIONER FOR PATENTS:

Transmitted herewith is an amendment in the above-identified application.

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### CLAIMS AS AMENDED

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|---|---|---|---|---|---|
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| INDEP. CLAIMS | 7  - | 7  = | 0 x | $86.00 | $0.00 |
| Multiple Dependent Claims (check if applicable)  ☐ |  |  |  |  | $0.00 |
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Dated:   August  /8 , 2004

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**Wayne F. Reinke**

cc:

-1-                                         JA999144

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:    Ryo Yoshida            Confirmation No.: 9735

Serial No.:   09/712,576            Group Art Unit: 2155

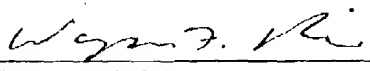Filed:        11/14/2000            Examiner: Benjamin R. Bruckart

Title:    REMOTE CONTROL SYSTEM, SERVER-CLIENT SYSTEM, SERVER FOR
          CONTROLLING TERMINAL DEVICE, TERMINAL DEVICE OPERATING
          METHOD, DEVICE INFORMATION SHARING METHOD, STORAGE
          MEDIA, AND PROGRAM TRANSMISSION APPARATUS

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August 18, 2004.

_____
Wayne F. Reinke
Attorney for Applicant
Registration No.: 36,650

Date of Signature: August 18, 2004.

To:    Mail Stop Amendment
       Commissioner for Patents
       P.O. Box 1450
       Alexandria, VA 22313-1450

### AMENDMENT AND RESPONSE TO OFFICE ACTION

Dear Sir:

In response to an Office Action with a mailing date of August 5, 2004, response to which
is due by September 4, 2004, without extension, and which is being timely filed, kindly amend
the above-identified application as follows:

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Amendments to the Claims:

In compliance with the Revised Amendment Format, a complete listing of claims is provided herein.

1.      (Original)  A remote control system comprising:

a terminal device having a control program;

a server connected to said terminal device, for transmitting control data and for registering three-dimensional model data concerning said terminal device; and

a client connected to said server, for receiving said three-dimensional model data, wherein said client performs an additional operation upon the receipt of specific three-dimensional model data from said server, and transmits, to said server, update data for changing a three-dimensional model, which are obtained by said additional operation, and wherein said server transmits, to said terminal device, said control data based on said update data for a three-dimensional model received from said client.

2.      (Original)  The remote control system according to claim 1, wherein, based on said update data for a three-dimensional model received from said client, said server transmits operation control data to said terminal device, and said control program of said terminal device interprets said operation control data for said operation of said terminal device, and transmits, to said server, control data for reflecting said operating results.

3.      (Original)  The remote control system according to claim 2, wherein, based on said control data received from said terminal device, said server adjusts said three-dimensional model data to reflect the current state of said terminal device, and transmits the resultant three-dimensional model data to said client.

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4.    (Original) A server-client system comprising:

a server, in which are stored three-dimensional model data, consisting of a Java program file concerning a connected terminal device;

a first client connected to said server via a network, for calling for and for displaying specific three-dimensional model data included in said three-dimensional model data that are stored in said server; and

a second client connected to said server via said network, for employing a web browser to designate a URL for said specific three- dimensional model data that are called for by said first client, and for downloading and displaying said specific three-dimensional model data received from said server so as to share said specific three-dimensional model data with said first client.

5.    (Original) The server-client system according to claim 4, wherein said three-dimensional model data, which consists of said Java program file stored in said server, includes a program for controlling said terminal device, and said first and said second clients display the values of said three-dimensional model data to reflect the current control state of said terminal device.

6.    (Original) The server-client system according to claim 4, wherein one of said first and said second clients is a computer at a customer support center that supports said terminal device.

7.    (Original)  A control server for a terminal device comprising:

a terminal device function control program, for exchanging control data for a terminal device connected to an internal network and for controlling the functions of said terminal device;

three-dimensional model data, including geometrical data for said terminal device and device operating data that are received by said terminal device function control program and reflect the operating results of said terminal device; and

a module, for recording an operation performed by a user as an operation event and for replaying, as needed, said operation event.

8.    (Original)  The control server according to claim 7, wherein said module employs recording/replaying software to record, as a VRML operation event, an operation performed by a user that is generated via a VRML browser, and replays and displays said VRML operation event via said VRML browser.

9.    (Original)  The control server according to claim 8, wherein an operation performed by said user is represented by the performance of an operation based on VRML contents, which are three-dimensional model data written for said VRML browser using a VRML format.

10.    (Original)  The control server according to claim 7, further comprising:

a client connected to an external network; and

a module for exchanging an operation event with said client via said external network.

JA999144

11.    (Original)  A terminal device control method whereby a client exercises remote control of a terminal device comprising the steps of:

designating a web browser at said client to designate a URL corresponding to said terminal device, and downloading three-dimensional model data;

rendering said three-dimensional model data that are downloaded, and reading a control program that is correlated through the designation of said URL; and

transmitting operation control data to said terminal device in response to an operation where a user performs with said three-dimensional model that is rendered by said client.

12.    (Original)  The terminal device control method according to claim 11, wherein said step of transmitting said operation control data to said terminal device includes the steps of:

transmitting, to a server, an update value of said three-dimensional model data obtained by said client; and

employing said update value to transmit said operation control data from said server to said terminal device.

13.    (Original)  The terminal device control method according to claim 11, further comprising the steps of:

transmitting control data for reflecting operating results from said terminal device to said server; and

reflecting said control data to said three-dimensional model data, and transmitting the resultant three-dimensional model data from said server to said client.

14.    (Original) A terminal device sharing method, for sharing among a plurality of clients information concerning a terminal device, comprising the steps of:

employing a web browser at a first client to designate a URL corresponding to said terminal device, and downloading model data;

rendering said model data that are downloaded;

preparing shared data by operating said model data that are rendered by said first client, and transmitting said data used in common;

employing a web browser of a second client to designate a URL corresponding to said terminal device, and downloading model data; and

receiving said data used in common from said first client and employing said data used in common to update said values of said model data.

15.    (Original) Storage media on which a computer stores a computer-readable program that permits said computer to perform:

a process of calling for three-dimensional model data concerning a terminal device connected to a network;

a process of rendering said three- dimensional model data that has been called for;

a process of calling for a control file associated with said three-dimensional model data; and

a process of receiving control data from said terminal device and of reflecting the received control data to said three-dimensional model data.

16.    (Original) Storage media according to claim 15, wherein said computer-readable program further comprises: a process of receiving updated values of three-dimensional model data from a client connected to an external network, and of transmitting said control data to said terminal device.

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17.     (Original) Storage media on which a computer stores a computer-executable program that permits said computer to perform:

a process of calling for the transmission, via an external network, of three-dimensional model data concerning a terminal device;

a process of rendering said three-dimensional model data that is called for;

a process of calling for a control file associated with said three-dimensional model data;

a process of reflecting said control file to values of said three-dimensional model data; and

a process of changing the values of said three-dimensional model data based on the operation for said three-dimensional model.

18.     (Original) A program transmission apparatus comprising:

storage means for storing a program that executes a process of calling for the transmission, via an external network, of three-dimensional model data concerning a terminal device, a process of rendering said three-dimensional model data that has been called for, a process of calling for a control file associated with said three-dimensional model data, a process of reflecting the values in said control file to the values of said three-dimensional model data, and a process of changing the values of said three-dimensional model data based an operation performed by a user for said three-dimensional model; and

transmission means for reading said program from said storage means and for transmitting said program to an external computer.

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19.     (New)  The remote control system of claim 1, further comprising:

a second client connected to said server, for employing a web browser to designate a URL for said specific three-dimensional model data, and for downloading said specific three-dimensional model data so as to share said specific three-dimensional model data with said client;

wherein said server further comprises a module for recording an operation performed by a user as an operation event and for replaying, as needed, said operation event.

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## REMARKS

Claims 1-18 were originally presented in the subject application. Claim 19 has hereinabove been added to more particularly point out and distinctly claim the subject invention. No claims have herein been amended or canceled. Therefore, claims 1-19 remain in this case.

The addition of new matter has been scrupulously avoided. In that regard, support for the addition of claim 19 can be found in claims 4 and 7 as filed.

Applicant respectfully requests entry of these remarks, and reconsideration and withdrawal of the restriction requirement.

### Claim Not Addressed

Applicant respectfully points out that claim 14 was not addressed in the Restriction Requirement. Presumably, claim 14 is in Group I. However, Applicant expressly requests confirmation thereof in the next Office Action.

### 35 U.S.C. §121 Restriction Requirement

The Office Action restricted the claims under 35 U.S.C. §121 into Group I (claims 1-3, 11-13 and 15-18), Group II (claims 4-6) and Group III (claims 7-10).

Applicant hereby provisionally elects the claims of Group I, with traverse.

The Restriction Requirement in the present case was made after an initial Office Action on the merits. MPEP §811 states that "Before making a restriction requirement after the first action on the merits, the examiner will consider whether there will be a serious burden if restriction is not required."

There is no indication in the Restriction Requirement that such a consideration has taken place. Moreover, since a search for all the claims was already made in preparation for the first Office Action, which addressed each of the noted claim Groups, Applicant submits there can be no such serious burden.

Therefore, Applicant submits the restriction requirement should be withdrawn.

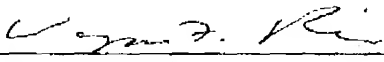-10-                                        JA999144

Nonetheless, Applicant has herein added claim 19, dependent on claim 1. Claim 19 adds a second client, as in claim 4, and a record/replay module, as in claim 7. Both of these features were present in the claims at filing. Thus, since a search was done for all the claims in order to prepare the first Office Action, Applicant submits that no further search should be necessary for claim 19.

In addition, Applicant submits that if claim 19 is ultimately allowed, then the Group II and Group III claims should be brought back into the case.

## CONCLUSION

For all the above reasons, Applicant maintains that the claims of the subject application should remain in the present application and that the restriction requirement should be withdrawn.

If a telephone conference would be of assistance in advancing prosecution of the subject application, Applicant's undersigned attorney invites the Examiner to telephone him at the number provided.

Wayne F. Reinke
Attorney for Applicant
Registration No.: 36,650

Dated: August 18, 2004.

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